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OM nucleic - nucleic search, using sw model

Run on: July 21, 2004, 05:22:42 ; Search time 78 Seconds  
(without alignments)  
4254.624 Million cell updates/sec

Title: US-09-920-953-2  
Perfect score: 598  
Sequence: 1 GCGCTGCTGCGAGCGGCG.....AGCCATTTTCGACCAAGCC 598

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 682709 seqs, 27745446 residues

Total number of hits satisfying chosen parameters: 1365418

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents NA: \*  
1: /cgn2\_6/prodata/2/ina/5A\_COMB.seq: \*  
2: /cgn2\_6/prodata/2/ina/5B\_COMB.seq: \*  
3: /cgn2\_6/prodata/2/ina/6A\_COMB.seq: \*  
4: /cgn2\_6/prodata/2/ina/6B\_COMB.seq: \*  
5: /cgn2\_6/prodata/2/ina/PCRTUS\_COMB.seq: \*  
6: /cgn2\_6/prodata/2/ina/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	46.4	7.8	4403765	3 US-09-103-840A-2	Sequence 2, Appli
C 2	46.4	7.8	4411529	3 US-09-103-840A-1	Sequence 1, Appli
C 3	42.2	7.1	759	4 US-09-252-991A-11092	Sequence 11092, A
4	42	7.0	1058	4 US-09-452-239-11	Sequence 11, Appl
5	41.6	7.0	1280	3 US-09-096-776B-4	Sequence 4, Appli
6	41.6	7.0	1280	4 US-09-923-922-4	Sequence 4, Appli
7	41.6	7.0	1491	3 US-09-082-092-9	Sequence 9, Appli
8	41.6	7.0	1491	4 US-09-885-722A-9	Sequence 9, Appli
9	41.6	7.0	1524	3 US-08-840-767-3	Sequence 3, Appli
10	41.6	7.0	1817	4 US-09-288-292A-45	Sequence 45, Appli
11	41.6	7.0	2887	4 US-09-679-298A-1	Sequence 1, Appli
12	41.6	7.0	3083	2 US-08-480-994-36	Sequence 1, Appli
13	41.6	7.0	3083	2 US-08-616-844-36	Sequence 36, Appli
14	41.6	7.0	3083	2 US-08-599-654-36	Sequence 36, Appli
15	41.6	7.0	3083	2 US-08-485-573-36	Sequence 36, Appli
16	41.6	7.0	3083	3 US-08-944-868A-36	Sequence 36, Appli
17	41.6	7.0	3083	3 US-08-944-423A-36	Sequence 36, Appli
18	41.6	7.0	3083	3 US-08-925-743-36	Sequence 36, Appli
19	41.6	7.0	3083	3 US-08-944-496-36	Sequence 36, Appli
20	41.6	7.0	3083	3 US-08-925-767-36	Sequence 36, Appli
21	41.6	7.0	3084	3 US-08-826-246-11	Sequence 11, Appli
22	41.6	7.0	3084	3 US-08-944-495-11	Sequence 11, Appli
23	41.6	7.0	3084	3 US-09-126-640-6	Sequence 6, Appli
24	41.6	7.0	3084	3 US-08-925-588-11	Sequence 11, Appli
25	41.6	7.0	3084	4 US-09-288-292A-6	Sequence 6, Appli
26	41.6	7.0	3084	4 US-09-372-044-11	Sequence 11, Appli
27	41.6	7.0	3084	4 US-08-825-486-11	Sequence 11, Appli

C 28 40.8 6.8 792 4 US-09-252-991A-10543 Sequence 10543, A  
29 40.8 6.8 804 4 US-09-252-991A-10323 Sequence 10323, A  
30 40 6.7 615 4 US-09-252-991A-10582 Sequence 10582, A  
C 31 40 6.7 984 4 US-09-252-991A-10275 Sequence 10275, A  
C 32 40 6.7 2778 4 US-09-252-991A-10486 Sequence 10486, A  
33 40 6.7 3339 4 US-09-252-991A-10685 Sequence 10685, A  
34 39.8 6.7 459 4 US-09-614-912-59 Sequence 59, Appl  
35 39.8 6.7 790 4 US-08-232-463-14 Sequence 45, Appl  
C 36 39 6.5 7218 1 US-08-232-463-14 Sequence 14, Appl  
C 37 38.6 6.5 1152 4 US-09-252-991A-4054 Sequence 4054, Ap  
C 38 38.6 6.5 1377 4 US-09-252-991A-4084 Sequence 4084, Ap  
39 38.6 6.5 1554 4 US-09-252-991A-1558 Sequence 1558, Ap  
40 38.6 6.5 2037 4 US-09-252-991A-4122 Sequence 4122, Ap  
41 38.6 6.5 2181 4 US-09-252-991A-4104 Sequence 4104, Ap  
42 38.6 6.5 2346 4 US-09-252-991A-1466 Sequence 1466, Ap  
43 38.4 6.4 423 1 US-08-470-179-186 Sequence 186, App  
44 38.4 6.4 1588 4 US-09-490-231-7 Sequence 7, Appl  
45 38.2 6.4 1260 4 US-09-252-991A-928 Sequence 928, App

ALIGNMENTS

RESULT 1  
US-09-103-840A-2/c  
; Sequence 2, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; FILE OF INVENTION: TUBERCULOSIS  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; CURRENT FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: Patent in Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 4403765  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; FEATURE:  
; OTHER INFORMATION: CDC 1551  
; OTHER INFORMATION: "n" bases at various positions throughout the sequence  
; OTHER INFORMATION: represent a, t, c or g  
US-09-103-840A-2

Query Match 7.8%; Score 46.4; DB 3; Length 4403765;  
Best Local Similarity 50.9%; Pred. No. 0.067;  
Matches 110; Conservative 0; Mismatches 106; Indels 0; Gaps 0;  
QY 51 ATGCGGCGCAAGAGCTGTTGATGACCTGGCGCGCAGAGGATGAAGCTGGCGGT 110  
DB 1744933 ACGTGAGCCGATCAGCATCTACGACAGATCGCGGCGCATGAGCCATCGAAGTCGTCGT 1744874  
QY 111 TGACACCTTACGATAAGGTGCTGCTGACCGGAGCTGCTGCCCTTCTTCAGTCCCT 170  
DB 1744873 CGAGGACTTCTATGTTGCTGCTGCCGATGACCACTATCGCCCTTCTTCAGCGGTAC 1744814  
QY 171 GGACATCAAGAGCAGAGATGAAGCAGGTCAAGTTCATGAGTTCGTTTGGCGGAGC 230  
DB 1744813 GAACATGAGCGGCTCAAGGGCAAGCAGGTGGAGTTTTCGCGCGCGCGCTTGGCGGCCC 1744754  
QY 231 AGACCAATCAAGGCGCGAAGCATGTATACGACGACA 266  
DB 1744753 CGAGCCCTATACCGGTGCGCCGATGAAGCAAGTCCA 1744718

RESULT 2  
US-09-103-840A-1/c  
; Sequence 1, Application US/09103840A

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; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
; US-09-103-840A-1

Query Match      7.8%; Score 46.4; DB 3; Length 4411529;
Best Local Similarity 50.9%; Pred. No. 0.067;
Matches 110; Conservative 0; Mismatches 106; Indels 0; Gaps 0;

QY 51 ATCGGGCGCAAGAGCTGTTGATGACCTGGGGGGCGGAGGAGGATGAGCTGGCGGT 110
DB 1744808 ACGTGAGCCGATCAGCATCTACGACAGATCGCGGGGATGAGGCCATGAGTCTGCT 1744749

QY 111 TGACACCTTCTACGATAAGGTGCTGGTGACCGGAGCTGCTGCCCTTCTTCGAGTCCCT 170
DB 1744748 CGAGGACTTCTATGTTGCTGCTGCTGCGATGACCACTATCGGCTTCTTCAGCGGTAC 1744689

QY 171 GGACATCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 230
DB 1744688 GAACATGAGCGGCTCAAGGGCAAGCAGAGTGGAGTGTTCGCGCGCGGCTTGGCGGGC 1744629

QY 231 AGACCATACAGAGGCGGAGAGCATGTACGACGACCA 266
DB 1744628 CGAGCCCTATACCGTGGCGGATGAAGCAAGTCCA 1744593

RESULT 3
US-09-252-991A-11092
; Sequence 11092, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196.136
; CURRENT APPLICATION NUMBER: US/09/252,991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074,788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094,190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 11092
; LENGTH: 759
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-11092

Query Match      7.1%; Score 42.2; DB 4; Length 759;
Best Local Similarity 51.9%; Pred. No. 0.055;
Matches 95; Conservative 0; Mismatches 88; Indels 0; Gaps 0;

QY 53 GCGGGCGCAAGAGCTGTTGATGACCTGGCGGGCGGAGGAGGATGAGCTGGCGGTG 112
DB 500 GCGACCGCAAGTGGTGGCGGGCGGAGGCGGAGCGTGGCGGAGCGCTACTCGCGGTA 559

QY 113 ACACCTTCTACGATAAGGTGCTGCTGACCGGAGCTGCTGCCCTTCTTCGAGTCCCTGG 172

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DB 560 CCGCTCGTGGGAGCGGAGCTGGGCTACTTCGACCTGCGACAGGACTTTCGCGGCTGC 619
QY 173 ACATGCAAGAGCAGAGATGAAGCAGGTCAAGTTCATGAGCTTCGTGTTTGGCGGAGCAG 232
DB 620 ATCGACACCTTGGAGAGCTGGAGCAGGACCGGCGGTGCGCTTCGCCCATGCCATCGAGG 679
QY 233 ACC 235
DB 680 ATC 682

RESULT 4
US-09-452-239-11
; Sequence 11, Application US/09452239
; Patent No. 6465229
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni J.
; APPLICANT: Pader, Gary M.
; APPLICANT: Cahoon, Rebecca E.
; TITLE OF INVENTION: Plant Caffeoyl-CoA O-Methyltransferase
; FILE REFERENCE: BEI284 US NA
; CURRENT APPLICATION NUMBER: US/09/452,239
; CURRENT FILING DATE: 1999-12-01
; EARLIER APPLICATION NUMBER: 60/110,594
; EARLIER FILING DATE: 1998-December-02
; NUMBER OF SEQ ID NOS: 50
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 11
; LENGTH: 1058
; TYPE: DNA
; ORGANISM: Oryza sativa
; US-09-452-239-11

Query Match      7.0%; Score 42; DB 4; Length 1058;
Best Local Similarity 52.9%; Pred. No. 0.059;
Matches 90; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 162 CGAGTCCCTGGACATGCAAGAGCAGAGAGATGAAGCAGGTCAAGTTCATGAGCTTCGTGT 221
DB 619 CAATACCTCAACTACCAGGAGCGGTGATGAAGTGTGTCGAGGTGCGGCTCGTCGG 678

QY 222 TGGCGGAGCAGACCAATACAGGCGGAGAGCATGTAGCAGCACACGCCCATCTGTGCAA 281
DB 679 CTACGACAAACAGCTCTGGAAAGCGTCCGTGCTCCCGCCGAGCGCCCATGCGCAA 738

QY 282 GGGCCAGCGGCTGGACACACCGCCACTTTGACAAAGATCAAGCAGTACCTTG 331
DB 739 GTACATCGCTACTACCGGACTTCGTGCTCGAGCTCAACAAGGCGCTCG 788

RESULT 5
US-09-096-776B-4
; Sequence 4, Application US/09096776B
; Patent No. 6270994
; GENERAL INFORMATION:
; APPLICANT: Miyazono, Kohei
; APPLICANT: Kawabata, Masahiro
; TITLE OF INVENTION: SMAD6 AND USES THEREOF
; FILE REFERENCE: L0461/7038
; CURRENT APPLICATION NUMBER: US/09/096,776B
; CURRENT FILING DATE: 1998-06-12
; PRIOR APPLICATION NUMBER: US 60/049,990
; PRIOR FILING DATE: 1997-06-13
; PRIOR APPLICATION NUMBER: US 60/053,040
; PRIOR FILING DATE: 1997-07-18
; PRIOR APPLICATION NUMBER: US 60/066,173
; PRIOR FILING DATE: 1997-11-18
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 4
; LENGTH: 1280
; TYPE: DNA
; ORGANISM: Homo sapiens

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US-09-096-776B-4

Query Match  
Best Local Similarity 7.0%; Score 41.6; DB 3; Length 1280;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
  
QY 266 ACGCCCATCTGTTCAAGGGCCAGCGCTGGACACCGCCACTTTGACAAAGATCAAGCAGT 325  
Db 405 ACCTACCTCAGGGCAGCGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGT 464  
  
QY 326 ACCTTGGAGAGCGCTGCAAGAGATGGCGTCAAGCAGGATGTGATCCAGCAGCGCGCG 385  
Db 465 CGGTGGCGGCAAGCGCGCAGCAAGATCGGCTTCGGCATCTCTGCTCAGCAAGGAGCGCG 524  
  
QY 386 GAGTGTGGAGTCCACCGCGAGATTTGACTTNCACCAACTCGC 434  
Db 525 GCGTGGGCTTACACCGCGGCGAGCACCCTTCCTGCTCAACTCCCC 573

RESULT 6

US-09-923-922-4  
; Sequence 4, Application US/09923922  
; Patent No. 6534476  
; GENERAL INFORMATION:  
; APPLICANT: Miyazono, Kohei  
; APPLICANT: Kawabata, Masahiro  
; TITLE OF INVENTION: SMAD6 AND USES THEREOF  
; FILE REFERENCE: L0461/7120  
; CURRENT APPLICATION NUMBER: US/09/923,922  
; CURRENT FILING DATE: 2001-08-07  
; PRIOR APPLICATION NUMBER: 09/096,776  
; PRIOR FILING DATE: 1998-06-12  
; PRIOR APPLICATION NUMBER: US 60/049,990  
; PRIOR FILING DATE: 1997-06-13  
; PRIOR APPLICATION NUMBER: US 60/053,040  
; PRIOR FILING DATE: 1997-07-18  
; PRIOR APPLICATION NUMBER: US 60/066,173  
; PRIOR FILING DATE: 1997-11-18  
; NUMBER OF SEQ ID NOS: 10  
; SOFTWARE: Patentin version 3.0  
; SEQ ID NO 4  
; LENGTH: 1280  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-09-923-922-4

Query Match  
Best Local Similarity 7.0%; Score 41.6; DB 4; Length 1280;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
  
QY 266 ACGCCCATCTGTTCAAGGGCCAGCGCTGGACACCGCCACTTTGACAAAGATCAAGCAGT 325  
Db 405 ACCTACCTCAGGGCAGCGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGT 464  
  
QY 326 ACCTTGGAGAGCGCTGCAAGAGATGGCGTCAAGCAGGATGTGATCCAGCAGCGCGCG 385  
Db 465 CGGTGGCGGCAAGCGCGCAGCAAGATCGGCTTCGGCATCTCTGCTCAGCAAGGAGCGCG 524  
  
QY 386 GAGTGTGGAGTCCACCGCGAGATTTGACTTNCACCAACTCGC 434  
Db 525 GCGTGGGCTTACACCGCGGCGAGCACCCTTCCTGCTCAACTCCCC 573

RESULT 7

US-09-082-092-9  
; Sequence 9, Application US/09082092  
; Patent No. 6251628  
; GENERAL INFORMATION:  
; APPLICANT: Nakao, Atsuhito  
; APPLICANT: Moren, Anita  
; APPLICANT: Heuchel, Rainer  
; APPLICANT: Itoh, Susumu  
; APPLICANT: Afrakhte, Morzghan

APPLICANT: Souchelnytskyi, Serhiy  
APPLICANT: Brodin, Greger  
APPLICANT: Landstrom, Marene  
APPLICANT: Heldin, Nils-Erik  
APPLICANT: Heldin, Carl-Henrik  
APPLICANT: ten Dijke, Peter  
TITLE OF INVENTION: SMAD7 AND USES THEREOF  
NUMBER OF SEQUENCES: 15  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Wolf, Greenfield & Sacks, P.C.  
STREET: 600 Atlantic Avenue  
CITY: Boston  
STATE: MA  
COUNTRY: U.S.A.  
ZIP: 02210-2211  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/082,092  
FILING DATE: 20-MAY-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/047,221  
FILING DATE: 20-MAY-1997  
APPLICATION NUMBER: 60/060,465  
FILING DATE: 30-SEP-1997  
APPLICATION NUMBER: 60/075,940  
FILING DATE: 25-FEB-1998  
APPLICATION NUMBER: 60/077,033  
FILING DATE: 06-MAR-1998  
ATTORNEY/AGENT INFORMATION:  
NAME: Van Amsterdam, John R.  
REGISTRATION NUMBER: 40,212  
REFERENCE/DOCKET NUMBER: L0461/7032  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-720-3500  
TELEFAX: 617-720-2441  
TELEX:  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1491 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cdna  
US-09-082-092-9  
  
Query Match  
Best Local Similarity 7.0%; Score 41.6; DB 3; Length 1491;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;  
  
QY 266 ACGCCCATCTGTTCAAGGGCCAGCGCTGGACACCGCCACTTTGACAAAGATCAAGCAGT 325  
Db 1076 ACCTACCTCAGGGCAGCGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGT 1135  
  
QY 326 ACCTTGGAGAGCGCTGCAAGAGATGGCGTCAAGCAGGATGTGATCCAGCAGCGCGCG 385  
Db 1136 CGGTGGCGGCAAGCGCGCAGCAAGATCGGCTTCGGCATCTCTGCTCAGCAAGGAGCGCG 1195  
  
QY 386 GAGTGTGGAGTCCACCGCGAGATTTGACTTNCACCAACTCGC 434  
Db 1196 GCGTGGGCTTACACCGCGGCGAGCACCCTTCCTGCTCAACTCCCC 1244

RESULT 8

US-09-885-722A-9  
; Sequence 9, Application US/09885722A  
; Patent No. 6605443  
; GENERAL INFORMATION:  
; APPLICANT: Nakao, Atsuhito

APPLICANT: Helden, Carl-Henrik  
APPLICANT: ten Dijke, Peter  
TITLE OF INVENTION: SMAD7 AND USES THEREOF  
FILE REFERENCE: L00461.70117.US  
CURRENT APPLICATION NUMBER: US/09/885,722A  
CURRENT FILING DATE: 2001-06-20  
PRIOR APPLICATION NUMBER: US 09/082,092  
PRIOR FILING DATE: 1998-05-20  
PRIOR APPLICATION NUMBER: US 60/077,033  
PRIOR FILING DATE: 1998-03-06  
PRIOR APPLICATION NUMBER: US 60/075,940  
PRIOR FILING DATE: 1998-02-25  
PRIOR APPLICATION NUMBER: US 60/060,465  
PRIOR FILING DATE: 1997-09-30  
PRIOR APPLICATION NUMBER: US 60/047,221  
PRIOR FILING DATE: 1997-05-20  
NUMBER OF SEQ ID NOS: 16  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 9  
LENGTH: 1491  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-885-722A-9

Query Match 7.0%; Score 41.6; DB 4; Length 1491;  
Best Local Similarity 52.7%; Pred. No. 0.097;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 266 ACGCCCATCTGGTCAAGGGCCAGCGCTGAGCAGCAGGAGTGTGATCCAGCAGCGCCGCG 325  
DB 1076 ACTTACCTCAGGCGCGGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGCGAGT 1135

QY 326 ACCTTGGAGAGCGCTCAAGAGATGGGCTCAAGCAGGAGTGTGATCCAGCAGCGCCGCG 385  
DB 1136 CGGTGGCGGACCGGAGCAGAGATCGGCTTCGGCATCTGCTCAGCAGGAGCGCCGCG 1195

QY 386 GAGTGGTGGAGTCCACCGCGAGAAATTTGACTTNNCCAAACAAGTGGCG 434  
DB 1196 GCGTGTGGGCTACACACCGCGGAGCAGCAGCAGCTTCTGCTCAACTGCC 1244

RESULT 9  
US-08-840-767-3  
Sequence 3, Application US/08840767B  
Patent No. 6255464  
GENERAL INFORMATION:  
APPLICANT: Vogelstein, Bert  
APPLICANT: Kinzler, Kenneth W.  
APPLICANT: Riggs, Gregory J.  
APPLICANT: Thagalingam, Sam  
TITLE OF INVENTION: MAD-Related Genes in the Human  
FILE REFERENCE: 01107.05548  
CURRENT APPLICATION NUMBER: US/08/840,767B  
CURRENT FILING DATE: 1997-04-16  
EARLIER APPLICATION NUMBER: 60/015,823  
EARLIER FILING DATE: 1996-04-18  
NUMBER OF SEQ ID NOS: 53  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 3  
LENGTH: 1524  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-08-840-767-3

Query Match 7.0%; Score 41.6; DB 3; Length 1524;  
Best Local Similarity 52.7%; Pred. No. 0.098;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 266 ACGCCCATCTGGTCAAGGGCCAGCGCTGAGCAGCAGGAGTGTGATCCAGCAGCGCCGCG 325  
DB 649 ACTTACCTCAGGCGCGGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGCGAGT 708

QY 326 ACCTTGGAGAGCGCTGCAAGAGATGGGCGTCAAGCAGGAGTGTGATCCAGCAGCGCCGCG 385

DB 709 CGGTGGCGGAGACCGGAGCAGAGATCGGCTTCGCATCTCTCAGCAGGAGCGCCGACG 768  
QY 386 GAGTGGTGGAGTCCACCGCGAGCGAAATTTGACTTNNCCAAACAAGTGGCG 434  
DB 769 GCGTGTGGGCTTACACACCGCGGAGCAGCAGCAGCTTCTGCTCAACTGCC 817

RESULT 10  
US-09-288-292A-45  
Sequence 45, Application US/09288292A  
Patent No. 6359194  
GENERAL INFORMATION:  
APPLICANT: Dean A. Falb  
APPLICANT: Katherine Galvin  
APPLICANT: Michael Donovan  
APPLICANT: Dennis Huszar  
APPLICANT: Michael A. Gimbrone, Jr.  
TITLE OF INVENTION: Compositions and Methods for the Treatment and Diagnosis of  
FILE REFERENCE: 7853-140-999  
CURRENT APPLICATION NUMBER: US/09/288,292A  
CURRENT FILING DATE: 1999-04-08  
PRIOR APPLICATION NUMBER: 08/870,434  
PRIOR FILING DATE: 1997-06-06  
PRIOR APPLICATION NUMBER: 08/799,910  
PRIOR FILING DATE: 1997-02-13  
PRIOR APPLICATION NUMBER: 60/011,787  
PRIOR FILING DATE: 1996-02-16  
PRIOR APPLICATION NUMBER: 08/485,573  
PRIOR FILING DATE: 1995-06-07  
PRIOR APPLICATION NUMBER: 08/386,844  
PRIOR FILING DATE: 1995-02-10  
NUMBER OF SEQ ID NOS: 46  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 45  
LENGTH: 1817  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-288-292A-45

Query Match 7.0%; Score 41.6; DB 4; Length 1817;  
Best Local Similarity 52.7%; Pred. No. 0.1;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 266 ACGCCCATCTGGTCAAGGGCCAGCGCTGAGCAGCAGGAGTGTGATCCAGCAGCGCCGCG 325  
DB 1230 ACCTACCTCAGGCGCGGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGCAGCGAGT 1289

QY 326 ACCTTGGAGAGCGCTGCAAGAGATGGGCGTCAAGCAGGAGTGTGATCCAGCAGCGCCGCG 385  
DB 1290 CGGTGGCGGAGCAGCGCGAGAGATCGGCTTCGGCATCTCTGCTCAGCAGGAGCGCCGACG 1349

QY 386 GAGTGGTGGAGTCCACCGCGAGCGAAATTTGACTTNNCCAAACAAGTGGCG 434  
DB 1350 GCGTGTGGGCTTACACACCGCGGAGCAGCAGCAGCTTCTGCTCAACTGCC 1398

RESULT 11  
US-09-679-298A-1  
Sequence 1, Application US/09679298A  
Patent No. 6566131  
GENERAL INFORMATION:  
APPLICANT: Brett P. Monia  
APPLICANT: Lex M. Cowbert  
TITLE OF INVENTION: ANTISENSE MODULATION OF SMAD6 EXPRESSION  
FILE REFERENCE: RTS-0045  
CURRENT APPLICATION NUMBER: US/09/679,298A  
CURRENT FILING DATE: 2001-03-05  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1  
LENGTH: 2887  
TYPE: DNA

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (937) .. (2427)
US-09-679-298A-1

Query Match
Best Local Similarity 7.0%; Score 41.6; DB 4; Length 2887;
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 266 AGCCCATCTGTGTCAGAGGCGCCGCTGGACCAACCGCCCACTTTGACAAGATCAAGCAGT 325
Db 2012 ACCTACCTCAGGCGAGCGGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGAGCAGT 2071
QY 326 ACCTTGAGAGACCTGCAAGAGATGGCGTCAAGCAGGATGTGATCCAGCAGCGCCGCG 385
Db 2072 CGGTGGCGGCAACCGCAGCAGAGATCGGCTTCGCGATCTCTGCTCAGCAGGAGCGCGAGC 2131
QY 386 GAGTGTGGAGTCCACCGCGCAGCAATTTGACTTNCACCAACTGGCG 434
Db 2132 GCGTGTGGCTCAACCGCGCGGAGCAGCCCACTCTTCGTCNACTCCCC 2180

RESULT 12
US-08-480-994-36
; Sequence 36, Application US/08480994
; Patent No. 5834248
; GENERAL INFORMATION:
; APPLICANT: FALB, DEAN A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/480,994
; FILING DATE: 07-JUN-1995
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,573
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/386,844
; FILING DATE: 10-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-033
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3083 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 16
; FEATURE:

; NAME/KEY: misc_feature
; LOCATION: 30
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2911
US-08-480-994-36

Query Match
Best Local Similarity 7.0%; Score 41.6; DB 2; Length 3083;
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

QY 266 AGCCCATCTGTGTCAGGCGCCGCTGGACCAACCGCCCACTTTGACAAGATCAAGCAGT 325
Db 1324 ACCTACCTCAGGCGAGCGGCTTCTGCTGGCCAGCTCAACCTGGAGCAGCGAGCAGT 1383
QY 326 ACCTTGAGAGACCTGCAAGAGATGGCGTCAAGCAGGATGTGATCCAGCAGCGCCGCG 385
Db 1384 CGGTGGCGGCAACCGCAGCAGAGATCGGCTTCGCGATCTCTGCTCAGCAGGAGCGCGAGC 1443
QY 386 GAGTGTGGAGTCCACCGCGCAGCAATTTGACTTNCACCAACTGGCG 434
Db 1444 GCGTGTGGCTCAACCGCGCGGAGCAGCCCACTCTTCGTCNACTCCCC 1492

RESULT 13
US-08-616-844-36
; Sequence 36, Application US/08616844
; Patent No. 5849578
; GENERAL INFORMATION:
; APPLICANT: FALB, DEAN A.
; TITLE OF INVENTION: COMPOSITION AND METHODS FOR THE
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/616,844
; FILING DATE: 15-MAR-1996
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/599,654
; FILING DATE: 09-FEB-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/485,573
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/386,844
; FILING DATE: 10-FEB-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Coruzzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7853-053
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790-9090
; TELEFAX: (212) 869-8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 36:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3083 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: unknown
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1492
; FEATURE:
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,
, NAME/KEY: misc_feature
, LOCATION: 16
,
, FEATURE:
, NAME/KEY: misc_feature
, LOCATION: 30
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, FEATURE:
, NAME/KEY: misc_feature
, LOCATION: 2911
US-08-616-844-36

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Query Match	7.0%	Score 41.6;	DB 2;	Length 3083;
Best Local Similarity	52.7%	Pred. No. 0.12;		

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Db	1324	ACTTACCTCAGGGACGGGTTCTGCTCTGGCCAGCTTCACTCTGGACACGGCAGCAGT	1383	
Qy	326	ACCTTGAGAGACGCTCAAGAGATGGGGCTCAAGCAGAGATGTGATCTCAGCAGCGCCCGC	385	
Db	1384	CGTTCGCGGAAACGCGCAGCAAGATCGCTTCGGCATCTCTGCTCAGCAAGGAGCCCGACG	1443	
Qy	386	GAGTGTGTGAGTCCACCCGGGACGAATTTGACTTNCCTCAACAATCGCGC	434	
Db	1444	GGCTGTGGGCTTCAACCGGGCGAGACGCCCATCTTCGTCAACTCCCC	1492	

RESULT 14

RESOL1 I4  
US-08-599-654-36  
: Sequence 36. Application US/08599654

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; sequence 36; Apparatus 657/605555554
; Patent No. 5882925
; GENERAL INFORMATION:
;
; APPLICANT: FALLB, DEAN A
;
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE
;
; TITLE OF INVENTION: TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE
;
; NUMBER OF SEQUENCES: 54
;

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MOLECULE TYPE:  CDNA
FEATURE:
NAME/KEY:  misc_fe
LOCATION:  16
FEATURE:
NAME/KEY:  misc_fe
LOCATION:  30
FEATURE:
NAME/KEY:  misc_fe
LOCATION:  2911
US-08-599-654-36

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Query Match 7.0%; Score 41.6; DB 2; Length 3083;  
Best Local Similarity 52.7%; Pred. No. 0.12;  
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

Qy	266	ACGCCATCTGTCAGGCGCCAGCGCCTCGACACCGCCACCTTTTGACAAGATCAAGCAGT	325
Db	1324	ACCTACTCAGGCGACGCGTTCTGCTGGCCAGCTCAACTGCGAGCAGCGCAGGAGT	1383
Qy	326	ACCTTGGAGAGAGCTGTCAAGAGATGGGCGTCAAGCAGAGATGTGATTCACAGCAGCGCCCG	385
Db	1384	CGGTGGCGGCACCGCCAGCAAGATCGGTTCCGCATCTCTGCTCAGCAAGAGACCCGACG	1443
Qy	386	GAGTGGTGGAGTCCACCCCGCAGCAATTTGACTTNGCCCAACTCGCC	434
Db	1444	GCCTGTGGCCTACAAACCGCGGAGCAGCCCACTCTTGTCACTCGCC	1492

## RESULT 15

RESULT IS  
US-08-485-573-36  
. Sequence 36. Application US/08485573

Patent No. 5968770  
GENERAL INFORMATION:  
APPLICANT: FALB, DEAN A.  
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE  
TREATMENT AND DIAGNOSIS OF CARDIOVASCULAR DISEASE  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:

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; NAME/KEY: misc_feature
; LOCATION: 16
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 30
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 2911
; US-08-485-573-36
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Query Match      7.0%; Score 41.6; DB 2; Length 3083;
Best Local Similarity 52.7%; Pred. No. 0.12; 80; Indels 0; Gaps 0;
Matches 89; Conservative 0; Mismatches 80; Indels 0; Gaps 0;

Qy      266  ACGCCCATCTGGTCAAGGGCCAGGGCTGTGACCAACGCCCACTTTGACAAGATCAAGCAGT 325
Db      1324  ACCTACCTCAGGGCAGGGCTTCTGCTGGGCCAGCTCAACCTGGAGCAGCGCAGGAGT 1383

Qy      326  ACCTTGAGAGACGCTGCAAGAGATGGGGCTCAAGCAGGATGTATCCAGCAGCGCCGG 385
Db      1384  CGGTGCGGGAACGCGCAGCAAGATCGGCTTCGGCATCCTGTCTCAGCAAGGAGCCCGACG 1443

Qy      386  GAGTGTGGAGTCCACCCGCGACGAATTTGACTTNCACAACTGCGC 434
Db      1444  GCGTGTGGGCTACACCGCGGCGAGCACCCCATCTTGTCAACTCCCC 1492
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Search completed: July 21, 2004, 07:52:34  
Job time : 90 secs





GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: July 21, 2004, 06:18:36 ; Search time 356 Seconds  
(without alignments)

8194.995 Million cell updates/sec

Title: US-09-920-953-2

Perfect score: 598

Sequence: 1 GCGTGCCTGCGAGCGGCG.....AGCATTTCGCCAAGCC 598

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 3191023 seqs, 2439312756 residues

Total number of hits satisfying chosen parameters: 6382046

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:  
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15: /cgn2\_6/ptodata/1/pubpna/US10B\_PUBCOMB.seq:  
16: /cgn2\_6/ptodata/1/pubpna/US10C\_PUBCOMB.seq:  
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18: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:  
19: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	74.4	12.4	372	13	US-10-282-122A-25335 Sequence 25335, A
2	50	8.4	2466	15	US-10-156-761-5788 Sequence 5788, Ap
3	50	8.4	9025608	15	US-10-156-761-1 Sequence 1, Appli
4	47.6	8.0	2256646	17	US-10-470-565-1 Sequence 1, Appli
5	47.4	7.9	548	17	US-10-437-963-94550 Sequence 94550, A
6	46.2	7.7	1209	16	US-10-369-493-32038 Sequence 32038, A
7	45.8	7.7	2209	17	US-10-437-963-68229 Sequence 68229, A
8	45.2	7.6	2238	17	US-10-437-963-97363 Sequence 97363, A
9	44.4	7.4	1445	17	US-10-437-963-35783 Sequence 35783, A
10	44.2	7.4	1000	17	US-10-389-566-49 Sequence 49, Appli
11	44.2	7.4	1377	16	US-10-369-493-39791 Sequence 39791, A
12	44.2	7.4	1395	16	US-10-369-493-39403 Sequence 39403, A
13	44.2	7.4	1404	16	US-10-369-493-39036 Sequence 39036, A
14	44.2	7.4	2055	17	US-10-389-566-235 Sequence 235, App

#### ALIGNMENTS

#### RESULT 1

US-10-282-122A-25335  
; Sequence 25335, Application US/10282122A  
; Publication No. US20040029129A1  
; GENERAL INFORMATION:  
; APPLICANT: Wang, Liangsu  
; APPLICANT: Zamudio, Carlos  
; APPLICANT: Malone, Cheryl  
; APPLICANT: Haselbeck, Robert  
; APPLICANT: Chislen, Karl  
; APPLICANT: Zyskind, Judith  
; APPLICANT: Wall, Daniel  
; APPLICANT: Trawick, John  
; APPLICANT: Carr, Grant  
; APPLICANT: Yamamoto, Robert  
; APPLICANT: Forsyth, R.  
; APPLICANT: Xu, H.  
; TITLE OF INVENTION: Identification of Essential Genes in Microorganisms  
; FILE REFERENCE: ELITRA.034A  
; CURRENT APPLICATION NUMBER: US/10/282,122A  
; CURRENT FILING DATE: 2003-02-20  
; PRIOR APPLICATION NUMBER: 60/191,078  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: 60/206,848  
; PRIOR FILING DATE: 2000-05-23  
; PRIOR APPLICATION NUMBER: 60/207,727  
; PRIOR FILING DATE: 2000-05-26  
; PRIOR APPLICATION NUMBER: 60/230,335  
; PRIOR FILING DATE: 2000-09-06  
; PRIOR APPLICATION NUMBER: 60/230,347  
; PRIOR FILING DATE: 2000-09-09  
; PRIOR APPLICATION NUMBER: 60/242,578  
; PRIOR FILING DATE: 2000-10-23  
; PRIOR APPLICATION NUMBER: 60/253,625  
; PRIOR FILING DATE: 2000-11-27  
; PRIOR APPLICATION NUMBER: 60/257,931  
; PRIOR FILING DATE: 2000-12-22

Sequence 7459, Ap  
Sequence 95877, A  
Sequence 4532, Ap  
Sequence 2429, Ap  
Sequence 1, Appli  
Sequence 15, App  
Sequence 4170, Ap  
Sequence 11, Appli  
Sequence 62449, A  
Sequence 33390, A  
Sequence 31, Appli  
Sequence 4, Appli  
Sequence 1590, Ap  
Sequence 4, Appli  
Sequence 64, Appli  
Sequence 45, Appli  
Sequence 64, Appli  
Sequence 1, Appli  
Sequence 14992, A  
Sequence 36, Appli  
Sequence 62, Appli  
Sequence 36, Appli  
Sequence 36, Appli  
Sequence 36, Appli  
Sequence 62, Appli  
Sequence 11, Appli  
Sequence 6, Appli  
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Sequence 6, Appli  
Sequence 17688, A

15 44 7.4 1368 17 US-10-437-963-7459  
16 42.8 7.2 2645 17 US-10-437-963-95877  
17 42.6 7.1 648 15 US-10-156-761-4532  
18 42.6 7.1 2121 15 US-10-156-761-2429  
19 42.6 7.1 9025608 15 US-10-156-761-1  
20 42.4 7.1 25000 12 US-09-968-007A-215  
21 42.2 7.1 1055 17 US-10-437-963-4170  
22 42 7.0 1058 9 US-09-452-239-11  
23 42 7.0 1060 17 US-10-437-963-62449  
24 42 7.0 1483 17 US-10-437-963-33390  
25 41.8 7.0 1425 17 US-10-354-437-31  
26 41.6 7.0 1280 9 US-09-923-922-4  
27 41.6 7.0 1280 9 US-09-954-456-1590  
28 41.6 7.0 1280 13 US-10-390-553-4  
29 41.6 7.0 1817 9 US-09-924-417-64  
30 41.6 7.0 1817 15 US-10-067-741-45  
31 41.6 7.0 1817 17 US-10-653-872-64  
32 41.6 7.0 2887 15 US-10-327-805-1  
33 41.6 7.0 2967 13 US-10-382-122A-14992  
34 41.6 7.0 3083 9 US-09-371-900-36  
35 41.6 7.0 3083 9 US-09-924-417-62  
36 41.6 7.0 3083 9 US-09-970-820-36  
37 41.6 7.0 3083 9 US-09-986-718-36  
38 41.6 7.0 3083 15 US-10-186-950-36  
39 41.6 7.0 3083 17 US-10-653-872-62  
40 41.6 7.0 3084 8 US-08-825-486-11  
41 41.6 7.0 3084 8 US-08-870-434-6  
42 41.6 7.0 3084 9 US-09-372-044-11  
43 41.6 7.0 3084 10 US-09-560-150-6  
44 41.6 7.0 3084 15 US-10-067-741-6  
45 41 6.9 353 9 US-09-864-761-17688

; PRIOR APPLICATION NUMBER: 60/267,636  
; PRIOR FILING DATE: 2001-02-09  
; PRIOR APPLICATION NUMBER: 60/269,308  
; PRIOR FILING DATE: 2001-02-16  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 78614  
; SOFTWARE: PatentIn version 3.1  
; SEQ ID NO 25335  
; LENGTH: 372  
; TYPE: DNA  
; ORGANISM: Legionella pneumophila  
US-10-282-122A-25335

Query Match 12.4%; Score 74.4; DB 13; Length 372;  
Best Local Similarity 54.0%; Pred. No. 6.8e-13;  
Matches 175; Conservative 0; Mismatches 146; Indels 3; Gaps 1;

QY 68 TGTGATGACCTGGGGGCGGAGGAGGATGAGCTGGCGGTGACACCTTCTACGATA 127  
Db 14 TGTGAGCGATTAGCGGCGCAAAATGCCGTCAACACAGCTGTGGATATTTCTACCGCA 73

QY 128 AGTGTGCTGACCGGAGCTGTGCGCTTCTTCGAGTCCCTGGACATGCAAGACAGA 197  
Db 74 AAATGCTCTGATGACAGAGTGAATATTTTGTGATGACGTGGATATGAGCAACAA 133

QY 188 AGATGAGCAGGTCAAGTTTCATGAGCTTCGTGTTGGCGGAGAGCAACATCAAGGGCC 247  
Db 134.TCCTTAGCAAAAGGATTTTAAACATGTTTGGGGGACCAATCAATCACTGGAA 193

QY 248 GAAGCATGTAGAGCGACAGCCCATCTGTCAGGGCCACGGCTGGACACCGGCACT 307  
Db 194 AAAGTATGCGGAGGAGCATCAGCATCTACT--TGCCAGAGGCTTAAATGACTCATG 250

QY 308 TTGACAAAGTCAAGCAGTACTCTGGAGAGCGCTGCAAGAGATGGCGTCAAGCAGATG 367  
Db 251 TGGATATGTAATCGACATTTAGGGGAACCTTAAGGAATTGGGCGCCNATGAAGAG 310

QY 368 TGATCCAGCAGCGCGCGGAGTGG 391  
Db 311 ACATTCAGAAAGTAGCTGCAATCG 334

RESULT 2  
US-10-156-761-5788  
; Sequence 5788, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 5788  
; LENGTH: 2466  
; TYPE: DNA  
; ORGANISM: Streptomyces avermitilis  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (1)..(2466)  
US-10-156-761-5788

Query Match 8.4%; Score 50; DB 15; Length 2466;  
Best Local Similarity 47.1%; Pred. No. 0.00076;  
Matches 152; Conservative 0; Mismatches 171; Indels 0; Gaps 0;

QY 115 ACCTTCTACGATAAGGTGCTGGCTGACCCGGAGTGTGCTGCTTCTTCGAGTCCCTGGAC 174  
Db 7015347 ACCTCCACCTGCTGCTGCCGAGGACCCGCGCTGTGCGGCGCGACCGCCCGCTGCTC 7015406

QY 175 ATGCAAGAGCAGAAGATGAAGCAGGTCAAGTTTCATGAGTTCGTTGTTGGCGGAGCAGAC 234  
Db 7015407 CTGGTCGACGACGAGTTCTCCACCGGCAACACGCTCTCAACACCATCCGCGGACCTGCAC 7015466

QY 235 CAATACAGGGCCCAAGCATGTACGAGCACACGCCCATCTGTTCAAGGGCCACGGCCTG 294

Best Local Similarity 47.1%; Pred. No. 5.4e-05;  
Matches 152; Conservative 0; Mismatches 171; Indels 0; Gaps 0;

QY 115 ACCTTCTACGATAAGGTGCTGGCTGACCCGGAGTGTGCTGCTTCTTCGAGTCCCTGGAC 174  
Db 421 ACCTCCACCTGCTGCTGCCGAGGACCCGCGCTGTGCGGCGCGACCGCCCGCTGCTC 480

QY 175 ATGCAAGAGCAGAAGATGAAGCAGGTCAAGTTTCATGAGTTCGTTGTTGGCGGAGCAGAC 234  
Db 481 CTGGTCGACGACGAGTTCTCCACCGGCAACACGCTCTCAACACCATCCGCGGACCTGCAC 540

QY 235 CAATACAGGGCCCAAGCATGTACGAGCACACGCCCATCTGTTCAAGGGCCACGGCCTG 294  
Db 541 GAGCGCTATCCGCGCGCGGTACGTGCTGCGCCCTCGTGGACATGCGCTCCCGCGCC 600

QY 295 GACACCGCCACTTTGACAAGATCAAGCAGTACCTTGGAGAGAGCTGCAAGAGATGGGC 354  
Db 601 GACCTCGGGCGCTGGACGAGTTCCGCGCGAGATCGGTGCCCGGTGGACCTGATCACG 660

QY 355 GTCAAGCAGGATGTATCCAGCAGCGCGCGAGTGTGAGTCCACCGCGACGAATTT 414  
Db 661 GCGCGCTCGGGACGGTGAAGCTGCCGAGGCGCTGCTGGAGAGGGGCGAGGCTGCTC 720

QY 415 GACTTNNCCAACTGCGCAC 437  
Db 721 GCCCGCACGAGAGGCGGTACC 743

RESULT 3  
US-10-156-761-1  
; Sequence 1, Application US/10156761  
; Publication No. US20030119018A1  
; GENERAL INFORMATION:  
; APPLICANT: OMURA, SATOSHI  
; APPLICANT: IKEDA, HARUO  
; APPLICANT: ISHIKAWA, JUN  
; APPLICANT: HORIKAWA, HIROSHI  
; APPLICANT: SHIBA, TADAYOSHI  
; APPLICANT: SAKAKI, YOSHIYUKI  
; APPLICANT: HATTORI, MASAHIRA  
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES  
; FILE REFERENCE: 249-262  
; CURRENT APPLICATION NUMBER: US/10/156,761  
; CURRENT FILING DATE: 2002-05-29  
; PRIOR APPLICATION NUMBER: JP 2001-204089  
; PRIOR FILING DATE: 2001-05-30  
; PRIOR APPLICATION NUMBER: JP 2001-272697  
; PRIOR FILING DATE: 2001-08-02  
; NUMBER OF SEQ ID NOS: 15109  
; SEQ ID NO 1  
; LENGTH: 9025608  
; TYPE: DNA  
; ORGANISM: Streptomyces avermitilis  
; FEATURE:  
; NAME/KEY: misc feature  
; LOCATION: (4187715)  
; OTHER INFORMATION: a, t, c, g, other or unknown  
US-10-156-761-1

Query Match 8.4%; Score 50; DB 15; Length 9025608;  
Best Local Similarity 47.1%; Pred. No. 0.00076;  
Matches 152; Conservative 0; Mismatches 171; Indels 0; Gaps 0;

QY 115 ACCTTCTACGATAAGGTGCTGGCTGACCCGGAGTGTGCTGCTTCTTCGAGTCCCTGGAC 174  
Db 7015347 ACCTCCACCTGCTGCTGCCGAGGACCCGCGCTGTGCGGCGCGACCGCCCGCTGCTC 7015406

QY 175 ATGCAAGAGCAGAAGATGAAGCAGGTCAAGTTTCATGAGTTCGTTGTTGGCGGAGCAGAC 234  
Db 7015407 CTGGTCGACGACGAGTTCTCCACCGGCAACACGCTCTCAACACCATCCGCGGACCTGCAC 7015466

QY 235 CAATACAGGGCCCAAGCATGTACGAGCACACGCCCATCTGTTCAAGGGCCACGGCCTG 294

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Db 7015467 GAGCGCTATCCGGCGCGGTACGTCGTCGCGCTCGTGACATCGGCTCCCGCGCC 7015526
QY 295 GACCACCGCCATTTCACAGATCAAGCAGTACCTTGGAGACGCTCGAAGATGGC 354
Db 7015527 GACCTCGGCGCTGACAGAGTTCGCGCGAGATCGGTGCCGGGTGACCTGATCAG 7015586
QY 355 GTCAAGCAGATGTGATCAGCAGCGCGCGCGAGTGGTGGATCCACCGCGACGAATTT 414
Db 7015587 GCGGCTCGGAGCGGTGAAGCTGCCGAGGCGGTGCTGAGAGAGGGGAGGAGCTGTC 7015646
QY 415 GACTNCCCAACAATGCCACC 437
Db 7015647 GCGCGCACGAGAGGCGCGTACC 7015669

RESULT 4
US-10-470-565-1/c
; Sequence 1, Application US/10470565
; Publication No. US20040126870A1
; GENERAL INFORMATION:
; APPLICANT: Societe des Produits Nestle S.A.
; TITLE OF INVENTION: NCC2705 - the genome of a Bifidobacterium
; FILE REFERENCE: 80290/NO
; CURRENT APPLICATION NUMBER: US/10/470,565
; PRIOR FILING DATE: 2003-07-29
; PRIOR APPLICATION NUMBER: EP 01102050.0
; PRIOR FILING DATE: 2001-01-30
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 2256646
; TYPE: DNA
; ORGANISM: Bifidobacterium longum
US-10-470-565-1

Query Match 8.0%; Score 47.6; DB 17; Length 2256646;
Best Local Similarity 44.8%; Pred. No. 0.0027;
Matches 185; Conservative 0; Mismatches 230; Indels 0; Gaps 0;

QY 15 CCGCGCCACACAGCAGCAGAGAGCGGGAAGCGGATCGGCGCGCAAGAGCTGTTGA 74
Db 1432814 CGTCTCTACTTACCGCAGGCGATGGCTATGAGTGGCCACAGGCAACCCCAAGACGT 1432755

QY 75 TGACCTGGCGCGCAGAGAGGATGAAGCTGGCGTTGACCTTACGATAAGGTGCT 134
Db 1432754 CGATGAGAGAGCTGTGCGGTCTGAACGTTCGCTGAGACCGCGCACCGTCGAGGA 1432695

QY 135 GGCTGACCCGAGCTGTGCGCTTCTTCGAGTCCCTGGACATGCAAGAGCAGAGATGAA 194
Db 1432694 GGCCATCAACAGACCGCCCAAGCAGTGAAGGGGAGCGGCAAGAAAGACATCACCATCA 1432635

QY 195 GCAGGTCAAGTTCATGAGCTTGTGTTGGCGAGCAGACCANTACAAGGCGGAGCAT 254
Db 1432634 GTCTTCAAGCAGCAGACCGACCGCCACCCAGCTGTGGTACCGGCAAGCGGACGTCTT 1432575

QY 255 GTACGAGCAGCAGCCCATCTGTGTCAGGCGCACCGCTGGACACCGGCACTTTGACAA 314
Db 1432574 CTTGCGCGATTCCTCCGGTGTGCTGCTACGCTCGCCAGACCGATGTCAGTGAACA 1432515

QY 315 GATCAAGCAGTACTCTGGAGAGACGCTGCAAGAGATGGGCGTCAAGCAGGATGTATCCA 374
Db 1432514 GCTCGGCAAGGACTTCATGAAAGTGCAGAACCGCATCGCCATCAAGAAAGCGGATTC 1432455

QY 375 GCAGCGCGCGAGTGGTGGAGTCCACCGCGAGCAATTTGACTTCCCAACAAC 429
Db 1432454 GACCACCAAGCGCGTGAGAAAGCCATGCAAAAGCTCATGGACGCGGACCTTAC 1432400

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RESULT 5
US-10-437-963-94550
; Sequence 1, Application US/10437963
; Publication No. US20040123343A1
; GENERAL INFORMATION:

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; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovalic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; APPLICANT: Wu, Wei
; APPLICANT: Boukharov, Andrey A.
; APPLICANT: Li, Ping
; APPLICANT: Barbazuk, Brad
; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21(53221)B
; CURRENT APPLICATION NUMBER: US/10/437,963
; CURRENT FILING DATE: 2003-05-14
; NUMBER OF SEQ ID NOS: 204966
; SEQ ID NO 94550
; LENGTH: 548
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; OTHER INFORMATION: Clone ID: PAT_MRT4530_9282C.1
US-10-437-963-94550

Query Match 7.9%; Score 47.4; DB 17; Length 548;
Best Local Similarity 50.4%; Pred. No. 0.00022;
Matches 114; Conservative 0; Mismatches 112; Indels 0; Gaps 0;

QY 216 CGTGTTCGGGAGCAGACCAATACAAAGGCGGAGATGTACGACGACGACGCGCATCT 275
Db 194 CGTGTTCGGGCGCGCCACGCGCGCTCGGCGGGGATGTTCGCCGACCTCGCCCGGTG 253

QY 276 GGTCAAGGGCCACGCGCTGGACACCGCCACTTTTGACAAGATCAAGCAGTACCTTTGAGA 335
Db 254 GGTATGCTCCATGCTCACTTTCACGAGGCGGTGACCATGACGAGCGCGCGCGGA 313

QY 336 GACGCTCAAGAGATGGCGGTCAAGCAGGATGTGATCAGACGCGCGCGGAGTGTGGA 395
Db 314 GAAGCTCTTCAAGTGTCTGAGATGTACGAGGCGCACCGCGACGCTCCCGGTGATCGA 373

QY 396 GTCCACCGCGACGAGTTCGCTTCCCAACAACCTGCGCACCCCAAC 441
Db 374 GCGCTTCTCACCAGGCGGACGAGCAACACGACGCGCTGACC 419

RESULT 6
US-10-369-493-32038
; Sequence 32038, Application US/10369493
; Publication No. US20030233675A1
; GENERAL INFORMATION:
; APPLICANT: Cao, Yongwei
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Goldman, Barry S.
; APPLICANT: Chen, Xiaofeng
; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF
; TITLE OF INVENTION: PLANTS WITH IMPROVED PROPERTIES
; FILE REFERENCE: 38-10(52052)B
; CURRENT APPLICATION NUMBER: US/10/369,493
; CURRENT FILING DATE: 2003-02-28
; PRIOR APPLICATION NUMBER: US 60/360,039
; PRIOR FILING DATE: 2002-02-21
; NUMBER OF SEQ ID NOS: 47374
; SEQ ID NO 32038
; LENGTH: 1209
; TYPE: DNA
; ORGANISM: Thermobifida fusca
US-10-369-493-32038

Query Match 7.7%; Score 46.2; DB 16; Length 1209;
Best Local Similarity 55.2%; Pred. No. 0.00067;
Matches 90; Conservative 0; Mismatches 73; Indels 0; Gaps 0;

QY 248 GAAGCATGTACGACGACACGCGCCATCTGTTCAAGGCGGACGCGCTTGACCAACCGCCACT 307

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Db 86 GCACCTCTCTTTCGACGAAGTCTGTGGTGGAGCGCGCCGCGAGGACGACGACCTGT 145  
QY 308 TTGACAGATCAAGCAGTACCTTGGAGAGACGCTGCAAGAGATGGGGTCAAGCAGGATG 367  
Db 146 TCGTCCAGCTCTTGGGACCGGGGTGACCGTGCATGAATTCGGCAGCTGCTCGCG 205  
QY 368 TGATCCAGCAGCGCGCGAGTGTGTGAGTCCACCCGCGACGA 410  
Db 206 AGACTCTGCATCCCGAGCGAGAGGTTCATCTCGACGA 248

## RESULT 7

US-10-437-963-69229  
; Sequence 69229, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei  
; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53221)B

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 69229

; LENGTH: 2209

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_69918C.1

US-10-437-963-69229

Query Match 7.7%; Score 45.8; DB 17; Length 2209;  
Best Local Similarity 46.1%; Pred. No. 0.0011;  
Matches 152; Conservative 0; Mismatches 178; Indels 0; Gaps 0;

QY 110 TTGACACTTCTACGATAGGTGTGCTGACCGGAGGTGCTGCCCTTTCGAGTCCC 169  
Db 400 TCGACTACGTGTGTACAGCGACCGACGACCGGAAGCTCCCGACCGCTGTGGCGG 459  
QY 170 TGGACATGCAAGACGAGATGACGAGTCAAGTTCATGACTTCTGTTTGGCGGAG 229  
Db 460 AGATCATCCAGCGGAAACAGCTGTGGGCTGGAGAGTACAAGTTCCTCCTCAAGTCA 519  
QY 230 CAGACCAATACAAGGGCGGAGCATGTATCCAGCAGCACACGCCCATCTGGTCAAGGGCCAG 289  
Db 520 TCGTCAACTCCGCTGCGGAGGAGACCTACCGGCGCGGAAACATCATCGGCGGGCGG 579  
QY 290 GCTTGGACCAACCGCACTTTGACAGATCAGCAGTACCTTGGAGAGAGCTGCAAGAGA 349  
Db 580 ACGCCGCCCGCCCGCTCCCGAGGGGATGAGGAGATGAGCAGAGAGCTTCCAGCGCG 639  
QY 350 TGGCGGTGCAAGCAGGATGTGATCCAGCAGCGCCCGGAGTGTGGAGTCCACCCGCGAGC 409  
Db 640 TGCTCGACGAGCTGTTCGCGCGCTCGTCCGCGGCGGCGGCGGCTCCGCCCGCGG 699  
QY 410 AATTGACTTCCCAACAACTGGCACCCA 439  
Db 700 ACGTCGACCTCTCTCGTCAACGTGTCCA 729

## RESULT 8

US-10-437-963-97363/C  
; Sequence 97363, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 97363

; LENGTH: 2238

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_95374C.1

US-10-437-963-97363

Query Match 7.6%; Score 45.2; DB 17; Length 2238;  
Best Local Similarity 50.2%; Pred. No. 0.0017;  
Matches 110; Conservative 0; Mismatches 109; Indels 0; Gaps 0;

QY 216 CGTGTTCGCGGAGCAGACCAATACAGGGCGGAGAGTGTACGACGACAGCGCCATCT 275  
Db 1249 CGTGTTCGCGGCTGCGACGCGCGCGCTCGCGCGCCCATCTTCGTGCACTCGCCCGCTG 1190  
QY 276 GGTCAAGGGCCACGCGCTGACCGCCACTTTGACAAGATCAAGCAGTACCTTGGAGA 335  
Db 1189 CGCATGCTCCAGATGCTCACTTACCGAGCGCGTGGCATGACGAGCGCGCGCGA 1130  
QY 336 GACGCTCAAGAGATGGCGCTCAAGCAGAGATGTATCCAGCACCGCGCGAGTGGTGA 395  
Db 1129 GAAGCTCTTCAAGGTGCTCGACATGTACGAGCGCGTCCGCGACGCGCGCCCGCTCATCGA 1070  
QY 396 GTCCACCGCGCAGCAATTTGACTTNCACCAACTGGCG 434  
Db 1069 CGCTTTCATCGCGCTGCTCCACCGACGCGCGCGC 1031

## RESULT 9

US-10-437-963-35783  
; Sequence 35783, Application US/10437963  
; Publication No. US20040123343A1

## GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.

; APPLICANT: Kovalic, David K.

; APPLICANT: Zhou, Yihua

; APPLICANT: Cao, Yongwei

; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.

; APPLICANT: Barbazuk, Brad

; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With

; FILE REFERENCE: 38-21(53221)B

; CURRENT APPLICATION NUMBER: US/10/437,963

; CURRENT FILING DATE: 2003-05-14

; NUMBER OF SEQ ID NOS: 204966

; SEQ ID NO 35783

; LENGTH: 1445

; TYPE: DNA

; ORGANISM: Oryza sativa

; FEATURE:

; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_39672C.1

US-10-437-963-35783

Query Match 7.4%; Score 44.4; DB 17; Length 1445;  
Best Local Similarity 46.5%; Pred. No. 0.0026;  
Matches 141; Conservative 0; Mismatches 162; Indels 0; Gaps 0;



Db 793 CTGGCCCGCTAGTTGGTGGCATGCGCAGCAGGAGCTGTTACGCCAGCAGGAGTTGGTG 852  
QY 211 AGCTTCGTGTTTGGCGGAGCAGACCAATACAAAGGCGCGAAGCAATGTAGCAGCAGCGCC 270  
Db 853 GACCTGTTTCGACGCTCAAGGAGCTCAATTCCAAAGGCGCGCGCTGGACATGCGCAAGCTC 912  
QY 271 CATCTGTTCAAGGCGCAGCTGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 330  
Db 913 GGCTGGGTGAATCAGCATTAATTGAAGACCGCAGCAGCAGCAGCAGCAGCAGCAGCAG 972  
QY 331 GGAGAGAGCTGCAAGAGATGGCGTCAAGCAGGATGTATCCAGCAGCAGCAGCAGCAGCAG 390  
Db 973 GAATACAGCTCCGCAAGCTGGGCATTGATGTGCGCGCGCGCGCGCTGCGGATGTG 1032  
QY 391 GTGGAGTCCACCGCGA 407  
Db 1033 GTGGTGGCGCTGCGCGA 1049

## RESULT 13

US-10-369-493-39036  
; Sequence 39036, Application US/10369493  
; Publication No. US20030233675A1  
; GENERAL INFORMATION:

; APPLICANT: Cao, Yongwei  
; APPLICANT: Hinkle, Gregory J.  
; APPLICANT: Slater, Steven C.  
; APPLICANT: Goldman, Barry S.  
; APPLICANT: Chen, Xianfeng

; TITLE OF INVENTION: EXPRESSION OF MICROBIAL PROTEINS IN PLANTS FOR PRODUCTION OF  
; FILE REFERENCE: 38-10(52052)B

; CURRENT APPLICATION NUMBER: US/10/369,493  
; PRIOR FILING DATE: 2003-02-28

; PRIOR APPLICATION NUMBER: US 60/360,039  
; PRIOR FILING DATE: 2002-02-21

; NUMBER OF SEQ ID NOS: 47374  
; SEQ ID NO 39036

; LENGTH: 1404  
; TYPE: DNA

; ORGANISM: Xanthomonas campestris  
US-10-369-493-39036

Query Match 7.4%; Score 44.2; DB 16; Length 1404;  
Best Local Similarity 48.2%; Pred. No. 0.003;  
Matches 124; Conservative 0; Mismatches 133; Indels 0; Gaps 0;

QY 151 CTGCCCTTCTCGAGTCCCTGGACATGCAAGAGCAGAGATGAAGCAGGTCAAGTTCAATG 210  
Db 793 CTGGCCCGCTAGTTGGTGGCATGCGCAGCAGAGCTGTTACGACGAGGAGTTGCTG 852  
QY 211 AGCTTCGTGTTTGGCGGAGCAGACCAATACAAAGGCGCGAAGCATGTACGACGACACAGCG 270  
Db 853 GACCTGTTGACGCTCAAGGAGCTCAATTCCAAAGGCGCGCGCTGGACATGCGCAAGCTC 912  
QY 271 CATCTGTTCAAGGCGCAGCTGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 330  
Db 913 GGCTGGGTGAATCAGCATTAATTGAAGACCGCAGCAGCAGCAGCAGCAGCAGCAGCAG 972  
QY 331 GGAGAGAGCTGCAAGAGATGGCGTCAAGCAGGATGTATCCAGCAGCAGCAGCAGCAGCAG 390  
Db 973 GAATACAGCTCCGCAAGCTGGGCATTGATGTGCGCGCGCGCGCGCGCTGCGGATGTG 1032  
QY 391 GTGGAGTCCACCGCGA 407  
Db 1033 GTGGTGGCGCTGCGCGA 1049

## RESULT 14

US-10-389-566-235

; Sequence 235, Application US/10389566  
; Publication No. US20040025202A1

; GENERAL INFORMATION:

; APPLICANT: Monsanto Technology, LLC  
; APPLICANT: Laurie, Cathy C  
; TITLE OF INVENTION: Nucleic Acid Molecules Associated with Oil in Plants  
; FILE REFERENCE: 38-77(52900)D  
; CURRENT APPLICATION NUMBER: US/10/389,566  
; CURRENT FILING DATE: 2003-03-31  
; PRIOR APPLICATION NUMBER: US 60/365,301  
; PRIOR FILING DATE: 2002-03-15  
; PRIOR APPLICATION NUMBER: US 60/391,786  
; PRIOR FILING DATE: 2002-06-25  
; PRIOR APPLICATION NUMBER: US 60/392,018  
; PRIOR FILING DATE: 2002-06-26  
; NUMBER OF SEQ ID NOS: 2459  
; SOFTWARE: Patent in version 3.2  
; SEQ ID NO 235  
; LENGTH: 2055  
; TYPE: DNA  
; ORGANISM: Zea mays  
US-10-389-566-235

Query Match 7.4%; Score 44.2; DB 17; Length 2055;

Best Local Similarity 53.8%; Pred. No. 0.0034;  
Matches 91; Conservative 0; Mismatches 78; Indels 0; Gaps 0;

QY 66 GCTGTTTGTATGACCTGGCGGCGGAGGAGGATGAAGCTGGGTTGACACCTTCTACGA 125  
Db 930 GCAGTTTCATCGCCGCGGTCCACGCCGCGCGAGATGCTCACGGTAGAGGGCTACCGA 989  
QY 126 TAAGTGCTGGTGATCCCGGAGTCTGCTCCCTTCTTCGAGTCCCTGACATGCAAGAGCA 185  
Db 990 CATCGTCTGCGCAGGCGAAGCCCTCTCCGCGCGAGATCTCTGGTTGCGCGGCC 1049  
QY 186 GAGATGAGCAGGTCAGTTTCATGAGCTTGTGTTTGGCGGAGCAGAC 234  
Db 1050 GACGCTCAAGAGTCGAGGAGGTGGCGCGCTGTGTTGTCGCCGAC 1098

## RESULT 15

US-10-437-963-7459

; Sequence 7459, Application US/10437963  
; Publication No. US20040123343A1  
; GENERAL INFORMATION:

; APPLICANT: La Rosa, Thomas J.  
; APPLICANT: Kovalic, David K.  
; APPLICANT: Zhou, Yihua  
; APPLICANT: Cao, Yongwei  
; APPLICANT: Wu, Wei

; APPLICANT: Boukharov, Andrey A.  
; APPLICANT: Barbazuk, Brad  
; APPLICANT: Li, Ping

; TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With  
; FILE REFERENCE: 38-21(53221)B  
; CURRENT APPLICATION NUMBER: US/10/437,963  
; CURRENT FILING DATE: 2003-05-14  
; NUMBER OF SEQ ID NOS: 204966  
; SEQ ID NO 7459

; LENGTH: 1368  
; TYPE: DNA  
; ORGANISM: Oryza sativa

; FEATURE:  
; OTHER INFORMATION: Clone ID: PAT\_MRT4530\_14051C.1  
US-10-437-963-7459

Query Match 7.4%; Score 44; DB 17; Length 1368;  
Best Local Similarity 46.0%; Pred. No. 0.0034;  
Matches 149; Conservative 0; Mismatches 175; Indels 0; Gaps 0;

QY 1 CGCGTGGCTGCAGACCGCGGCACACGACGAGCGGGAAGCGGATCGGGCGC 60  
Db 535 CGCGTCTCTCGACGAGTACCTCGACCGCGCTGGACATGTTGGACGCTGGCATGGTC 594  
QY 61 AAGAAGCTGTTTGTATGACCTGGCGGCGGAGAGGATGAAGCTGGCGGTTGACACCTTC 120

Db	595	GAGGAGCTCGGAGTACTTCGCCACGACAAACCGCCGCGAGCGCGCTCCGCACTCCGGG	654
Qy	121	TACGATAAGGTGCTGGCTGACCCGGAGCTGCTGCCCTTCTTCGAGTCCCTGGACATGCAA	180
Db	655	CTGGGCAAGGCCATCGGCGCTCCCGAGCTCGGCGACTACTTCGCCCGGGCGCAAGACCTTC	714
Qy	181	GAGCAGAAGATGAAGCAGGTCAAAGTTTCATGAGCTTCGTGTTTGGCGGAGCAGACCAATAC	240
Db	715	TCCGAGGCGATCGACGACATCAAGCCACACCCGGGTCTCGCCGCGGCGAGGTGTC	774
Qy	241	AAGGCGCGAAGCATGTACGACGACACGCCCATCTGTGTCAGGGCCACGGCTTGACCCAC	300
Db	775	AAGATCCGCGCATGTCCGACGCTGGGGTGGCCCATCCACCGCTCGACGCTCCGAC	834
Qy	301	CGCCACTTTGACAAAGATCAAGCAG	324
Db	835	ACAGTCGCGCCAGGCTCACGCG	858

Search completed: July 21, 2004, 08:58:32  
Job time : 374 secs

